REACH Media Master

CL4000F（Powolive™）

User Manual

V2.1
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SZ Reach Tech Co., Ltd

Address: 6/F, Block B, Kingdee Software park, #2, Hi-Tech 12th, South Road, Hi-tech Industrial Park, Nanshan District, Shenzhen, P.R.China

Postal code: 518057

Website: http://www.szreach.com

Tel.: 0755-86073600

Hotline: 4007160868

Fax: 0755-86073689

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Note:

This user manual is compiled to ensure easy installation and configuration of the product. Please read this manual carefully before using the product so as to make best use of all its functions.

This manual is subject to update from time to time without prior notice. If you come across any problem that cannot be solved according to the manual, please contact Reach for solutions. Thank you.

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Contents

I OVERVIEW **6**

II INSTALLATION **7**

2.1 PRODUCT INTRODUCTION 7
2.2.1 Product front view *7*
2.2.2 Back view of the basic system *7*
2.2.3 Back view of the interface modules *8*
2.2 CONNECT CABLES 9

III GET STARTED **9**

3.1 STARTUP AND SHUTDOWN 9
3.2 LCD PANEL 10
3.3 BUTTONS ON THE FRONT PANEL 10
3.4 NETWORK 10
3.5 INSTALL AND DOWNLOAD PLUG-INS 12

IV LIVE STREAMING ..... 错误！未定义书签。

4.1 START AND CLOSE LIVE STREAMING 13
4.2 WATCHING LIVE STREAMING AS A COMMON USER 13

V RECORD **14**

5.1 QUICK RECORD ON WEB INTERFACE 14
5.2 ADVANCED RECORD ON WEB INTERFACE 15
5.3 SCHEDULED RECORD 16
5.3.1 Add new scheduled record *17*
5.3.2 Modify scheduled record *17*
5.3.3 Delete scheduled record *18*
5.3.4 Record immediately *18*
5.4 STOP RECORD ON WEB INTERFACE 19
5.5 RECORD WITH BUTTONS ON THE FRONT PANEL 19

VI VOD **20**

6.1 VOD AS THE ADMINISTRATOR 20
6.2 VOD AS A COMMON USER 21
6.3 SEARCH FILES 21
6.4 MODIFY FILES 22
6.5 DELETE FILES 23
6.6 SYNCHRONIZE FILES 23

VII DOWNLOAD **23**

VIII USER MANAGEMENT **25**

8.1 ADD NEW USER 25
8.2 MODIFY USER ATTRIBUTES 26

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8.3 EDIT THE VOD AUTHORITY OF USER 27
8.4 DELETE USERS 27
8.5 LDAP USER AND USER GROUP MANAGEMENT 28

IX SETTINGS 28

9.1 SET VOD AND RECORD PARAMETERS 28
9.1.1 Set Live bit-rate 28
9.1.2 Adjust the screen position 29
9.1.3 Adjust the screen color 30
9.1.4 Control the camera PTZ 30
9.2 SET SYSTEM PARAMETERS 31
9.2.1 Upgrade the system 31
9.2.2 Modify the language 31
9.2.3 Restart the system and synchronize the time 32
9.2.4 IP settings 32
9.2.5 Configure the network storage 33
9.2.6 Modify the device name 34
9.2.7 Recording duration for single file 34
9.2.8 System configuration 34
9.2.9 FTP server management 35
9.2.10 LDAP sever configuration 35

X SIGN OUT AND EXIT 36

XI LOG MANAGEMENT 36

XII TROUBLESHOOTING 37

XIII INTRODUCTION TO RECPLAYER 38

13.1 PRODUCT OVERVIEW 38
13.2 ENVIRONMENT FOR SOFTWARE AND HARDWARE INSTALLATION 39
13.3 INTRODUCTION TO THE INTERFACE 39
13.4 FUNCTIONS 40
13.4.1 Receive live streaming 40
13.4.2 Receive VOD 41
13.5 PREVIEW CONTROL ..... 错误！未定义书签。
13.6 ADD MARKS ..... 错误！未定义书签。
13.7 ONLINE COMMUNICATION 42
13.8 CHANGE PICTURE LAYOUT 44
13.9 PLAY OF LOCAL LIST 45
13.10 PLAY CONTROL 46
13.10 OTHER OPTIONS 46
13.10.1 Select the language 46
13.10.2 View the software version 46

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I Overview

As a new generation of visual information recorder and propagation equipment, REACH CL4000 Series Media Master is developed by SZ Reach Tech Co., Ltd. for recording and streaming meetings for large and medium-sized organizations. Its modular design allows up to 4 modules to be put into the unit. It supports the recording, live streaming and VOD of 4 ways visual signals in free combinations. There are optional SD module, VGA module, HD DVI module, HD SDI module, decoding module for users to configure flexibly according to their needs (please refer to the User Manual of Decoder for details). Different modules can realize different functions, such as the recording, live streaming, VOD, multithread mode saving, local preview and local playback of signals in free combinations. These signals include SD video signals (such as composite video), VGA, HD video signals (such as aberration, DVI, HDMI and HD-SDI) and one-way audio signal. The structure of CL4000 is 1U and 19-inch, which is applicable for engineering use. The system supports switching between the PowoLive™ and BeyondSys™ platforms, so that users can choose or transfer the business according to the applications. As a highly flexible recording and streaming business platform, CL4000 is configurable, expandable and movable, satisfying the needs for recording and streaming the visual information in meeting, training and teaching of large and medium-sized organizations.

The BeyonSys™ platform supports multiple operating systems (such as Windows OS and Mac OS) and multiple browsers (such as Internet Explorer, Safari and Chrome). Adopted the play buffer mode, it is applicable for WAN, supporting synchronous recording, live streaming and VOD of up to 3 pictures, as well as image index and online editing.

The PowoLive™ platform supports RecPlayer, 1080p@60Hz video, and synchronous recording, live streaming and VOD of up to 6 pictures. The live streaming delay is less than 0.5s and is applicable for LAN.

This manual introduces the CL4000 series using PowoLive™ platform. For better explanation, one-way DVI, one-way SD and one-way VGA are adopted as the typical configuration.

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Fig. Product appearance

II Installation

2.1 Product Introduction

2.2.1 Product front view

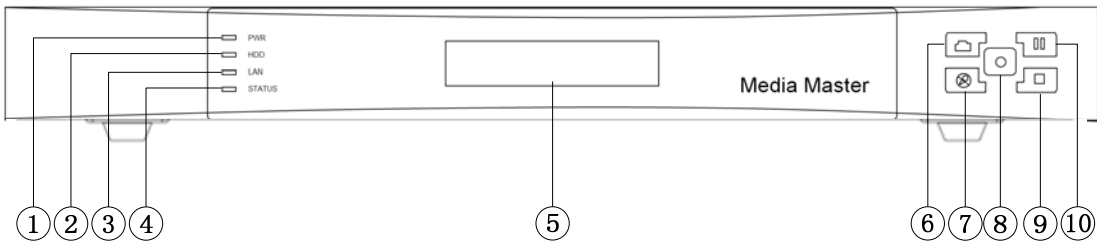

Fig. Product front view

1. Power LED
2. Hard disk LED
3. Network LED
4. Status LED
5. LCD
6. Taking picture button
7. Mute button
8. Start record button
9. Pause button
10. Stop record button

2.2.2 Back view of the basic system

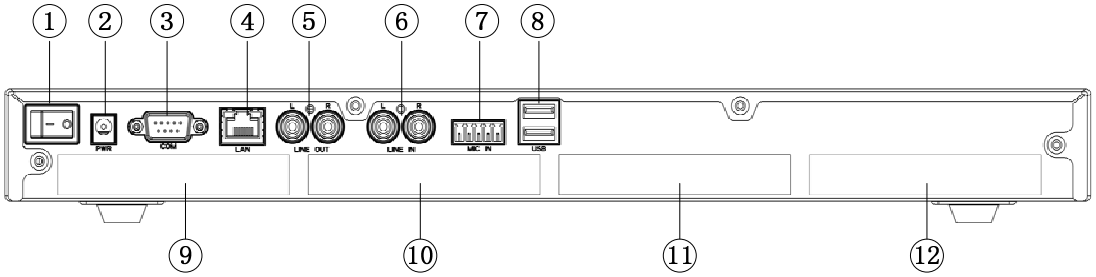

Fig. Back view of the basic system

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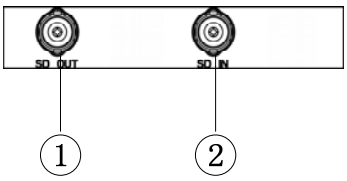
1. Power switch
2. Power interface
3. RS232 serial port
4. Network interface
5. Audio input interface
6. Audio output interface
7. MIC interface
8. 2 USB ports
9. SD 1 Module
10. SD 2 Module
11. DVI or HD SDI Module
12. NULL

2.2.3 Back view of the interface modules

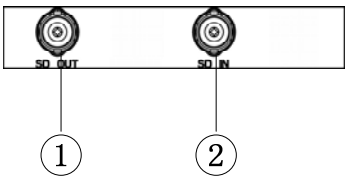
SD 1 module



Back view of one-way SD module

1. Composite video loop out BNC
2. Composite video input BNC

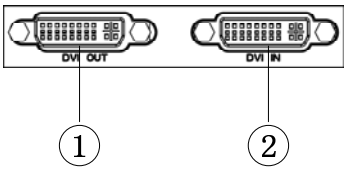
SD 2 module



Back view of one-way SD module

1. Composite video loop out BNC
2. Composite video input BNC

DVI module

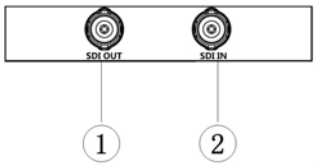


Back view of DVI module

1. DVI loop out port
2. DVI input port

OR

HD SDI module



Back view of HD SDI module

1. HD-SDI loop out port
2. HD-SDI input port

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2.2 Connect Cables

1. Put the device at the even and flat position.
2. Connect the SD video source, HD video source or computer signal source to the corresponding module input ports with the corresponding video cables according to the actual modular configuration of the device. To loop out the signals, connect the device loop out port to the display equipment or matrix with the corresponding video cables.
3. Connect the audio source to the audio input port Line In with the stereo audio cable. If there is microphone input, connect the microphone cable to the port Mic In.
4. To control the camera PTZ, connect the camera PTZ control port with the device serial port with the serial port cable.
5. Connect the network cable to the device's network port, so that the device will be connected to the network planned by the network administrator.
6. Connect the power of adaptor to the power interface and plug the adaptor to the power socket.

III Get Started

3.1 Startup and Shutdown

Before starting up the device, please make sure that the cables are properly connected, and then turn on the power switch on the rear panel of the device. The power LED of the device will be constantly ON after the device starts up. The hard disk LED will flash constantly and quickly until the startup completes.

Before shutting down the device, please make sure that the device has stopped recording and that the parameters have been saved. Then turn off the power switch on the rear panel of the device, thus protecting the hard disk and preventing data loss.

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3.2 LCD Panel

After the device starts up, some information about the device's status will be displayed on the LCD panel, such as the operating status, equipment model, IP address, subnet mask and gateway, etc.. The device model will be displayed as "CL4000xxxxxx", and the IP address, subnet mask and gateway will be displayed in turn as "xxx.xxx.xxx.xxx".

3.3 Buttons on the Front Panel

The users can use the buttons on the front panel to control the quick record, after the device runs normally. The button's LED indicates the current operating status of the device.

Mute button: The LED is off by default. It will be ON after the button is pressed, indicating that the sound is disabled during streaming. Press it again, the LED will be OFF and the system will recover to the normal live streaming.

Start record button: The LED is off by default. When it is in stop record or pause mode, the LED will be ON and the system will start to record after this button is pressed. Meanwhile, the Stop Record LED or Pause LED will be OFF. It will start to record all the audio, video and computer screen signals connected with the device.

Stop record button: The LED is ON by default. When it is in recording mode, the system will stop recording and the Stop Record LED will be ON after this button is pressed. Meanwhile, the Start Record LED will be OFF.

Pause button: The LED is OFF by default. When it is in recording mode, the system will pause recording and the Pause LED will be ON after this button is pressed. Meanwhile, the Start Record LED or Pause LED will be OFF. Press the "Quick Record" button to recover to the recording mode.

Taking picture button: Not available yet.

3.4 Network

Set the network parameters properly according to the requirements of the network administrator. Make sure that the control computer can fully access the device through network.

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Enter the IP address of the device in address bar of the Internet Explorer. Then press Enter to visit the Web interface.

Fig. Login interface

The user name and default password of the administrator are both “admin”. The administrator can set the user name and password for the common users. Please refer to the user management section for detailed information.

After logging in as the administrator, you will see the following interface.

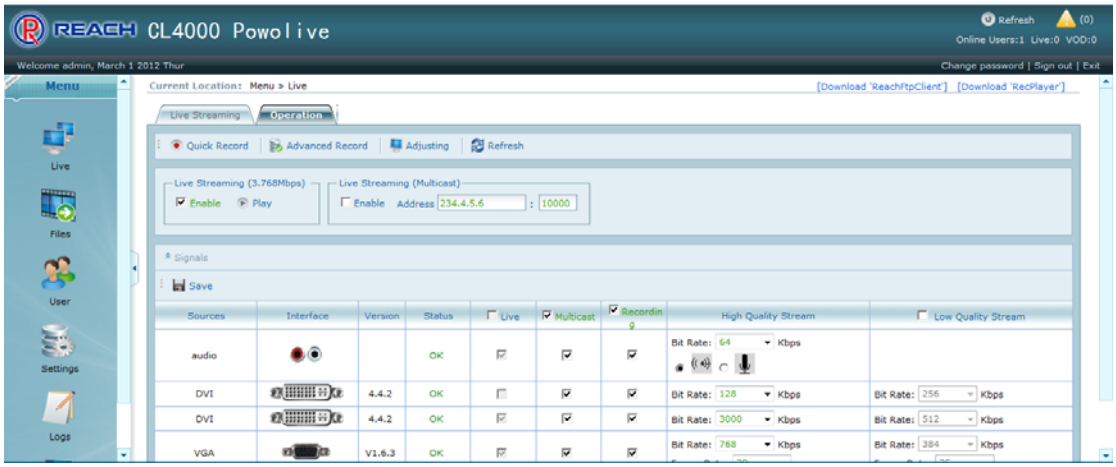

Fig. Interface after logging in as the administrator

After logging in as the common user, you will see the following interface.

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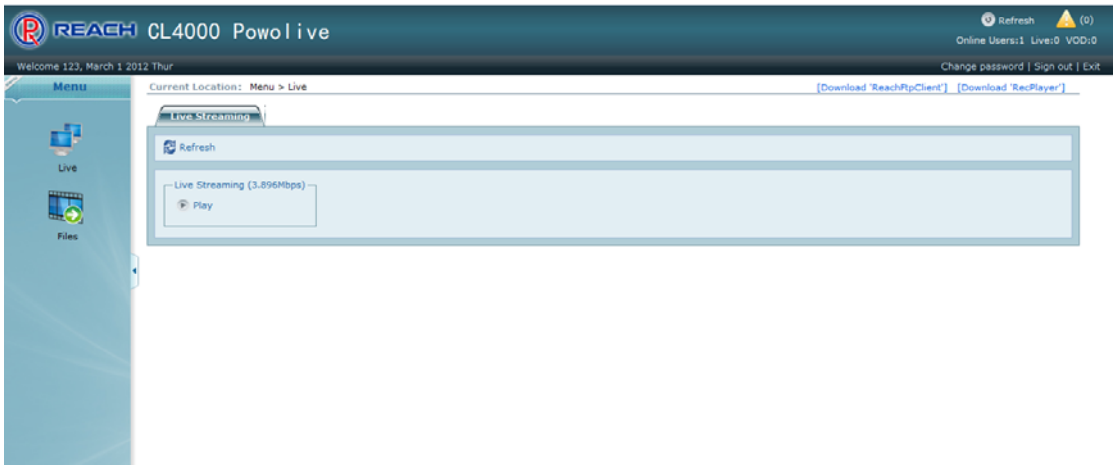

Fig. Interface after logging in as the common user

After logging in the device, you will see the company logo, equipment model, current user name and time displayed on the top left of the home page. There are two buttons on the right, including the “Refresh” button and the “Alarm” button

, which can be used to refresh the current page and view the alarm information of the device respectively. The numbers of online users, live streaming users and VOD users of the moment will be displayed here as well. For information about “Change password”, “Sign out” and “Exit”, please refer to Section 10.

3.5 Install and Download Plug-ins

When logging in for the first time, please click the link of “ReachFtpClient” to download and install the ReachDownload tool and then click the link of “Download RecPlayer” to download and install the player, so that you can download the recorded multimedia files and perform the live streaming and VOD of multimedia videos in the future.

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IV Live streaming

4.1 Start and Close Live Streaming

Sign in the device by using “admin”.

Sign in the Live interface by default and click “Signals” to expand the board card information of the device.

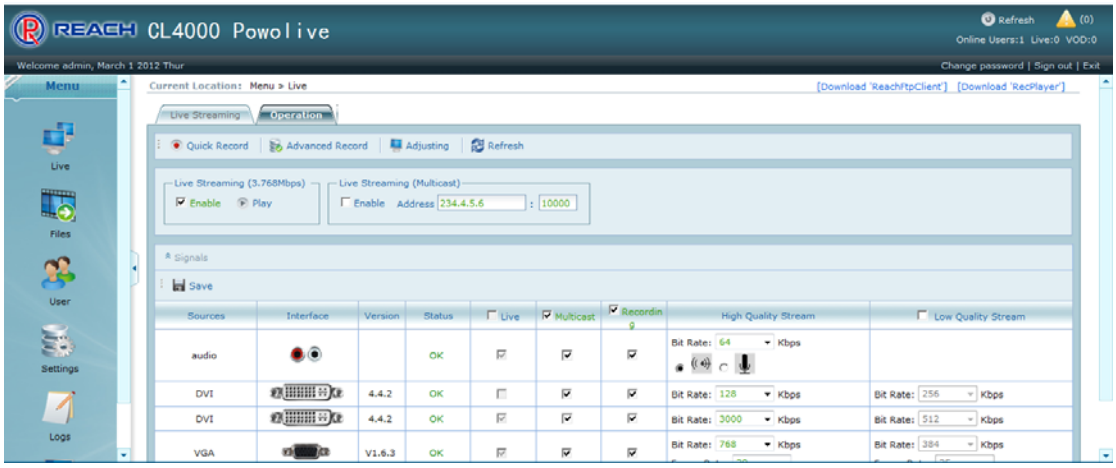

Fig. Live interface

Tick “Enable” in the “Live Streaming” field and click “Play” to prompt the RecPlayer to receive the live streaming contents.

By default, if the live streaming is enabled, you will receive all the videos and VGA images collected by the board cards. If the multicast is enabled, you will receive the videos and VGA images selectively.

Tick “Enable” in the “Multicast” field, then you can receive the multicast contents with the RecPlayer (some versions do not support the multicast function).

For the detailed information about receiving the live streaming with the RecPlayer, please refer to the section introducing it.

To close the live streaming, deselect “Enable”.

4.2 Watching live streaming as a Common User

Sign in the device by using a common user name with the authority of live streaming.

You will see the home page by default or you may click “Live” menu.

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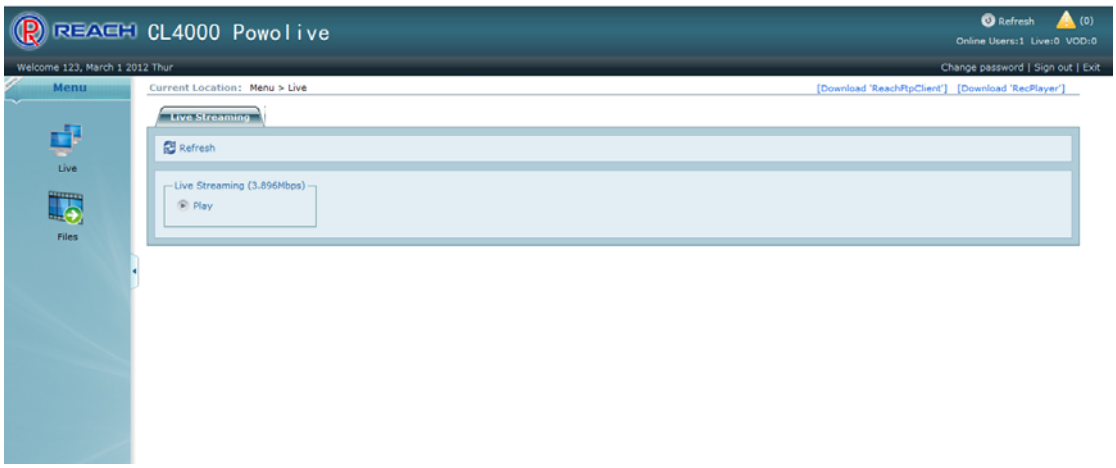

Fig. Receiving live streaming as a common user

Click “Play” and wait a second, the system will load the RecPlayer for you to watch the live streaming.

V Record

5.1 Quick Record on Web Interface

Sign in the device by using “admin”.

Click “Live” menu to enter the Live management interface.

Tick the video and audio sources to record on the “Signals” page.

Click “Quick Record”, the device will start to record in a few seconds. The recorded multimedia file is named as “yyyyddmmhhmmss_H”, which is formed with the recording year, month, date, hour, minute, second and quality of the bit-rate (“_H” means the default high quality file and “_L” means low quality file. You need to select the low quality bit-rate). You cannot change the audio and video sources as well as their attributes while recording.

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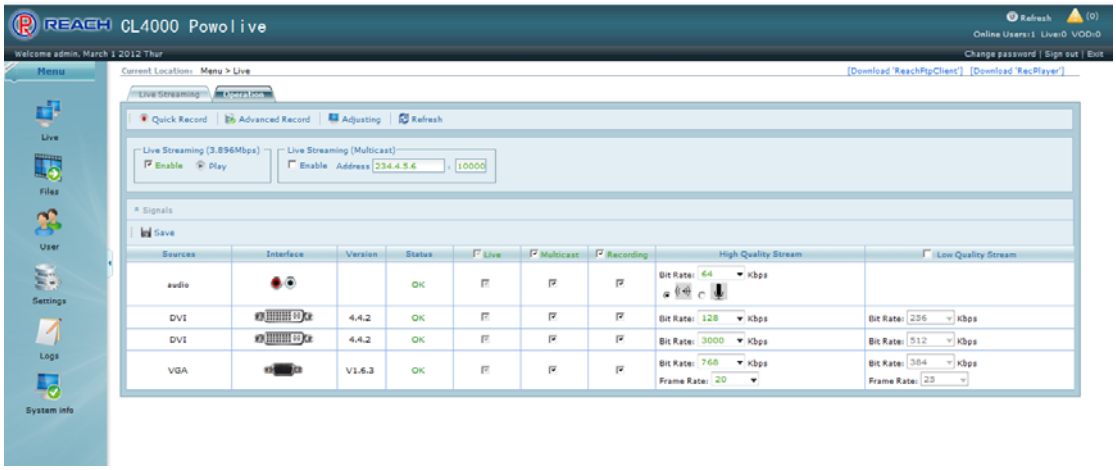

Fig. Live interface

5.2 Advanced Record on Web Interface

Sign in the device by using “admin”.

Click “Live” menu to enter the Live management interface.

Click “Advanced record” to prompt the confirmation dialog box.

You can define the record attributes on the advanced record page.

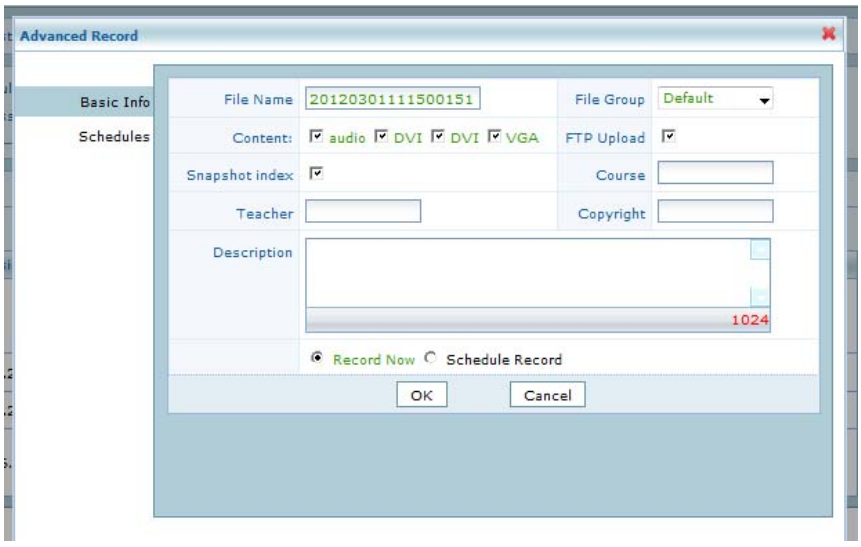

Fig. Configuration page of advanced record

Name	Definition
File name	The name of the multimedia file recorded
Description	The description of the multimedia file recorded
Content	Select the audio and video signal sources you want to record or

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	skip on this recording.
Snapshot index	When it is selected, it will automatically generate an image index for the tested VGA picture and the multimedia file.
Course	The name of the recorded course
Teacher	The name of the teacher for this course
Copyright	Copyright information
File Group	Dividing the files into groups for easy search and classification
FTP Upload	Upload to FTP server automatically. (Must need a FTP server)
Record Now	Click “OK” button to start recording
Schedule Record	Scheduled record

Click “OK” after finishing the setting. Then the device will start to record in a few seconds. You cannot change the audio and video sources as well as their attributes while recording.

5.3 Scheduled Record

The scheduled record tasks can be set on the advanced record page. You can define the timing for the scheduled record and set the timing record task for everyday, every week and every month.

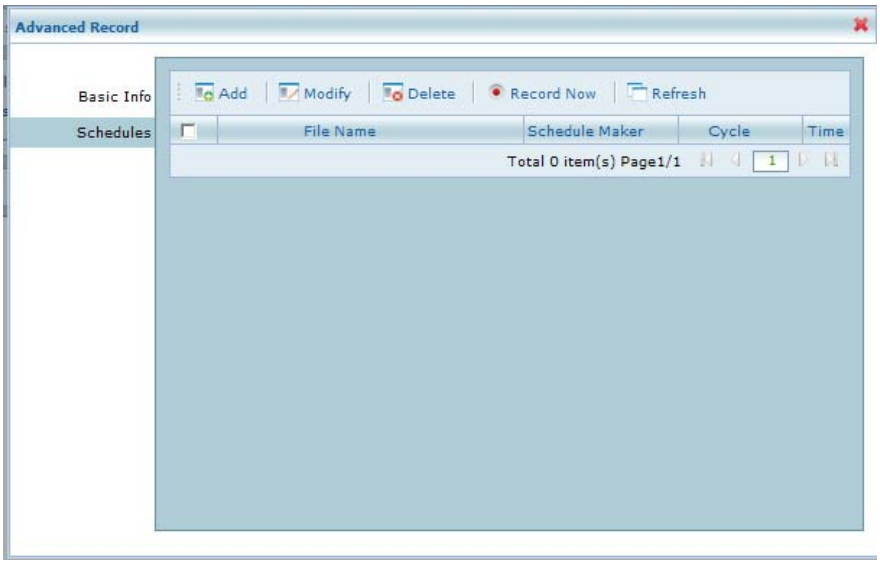

Fig. Scheduled record

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5.3.1 Add new scheduled record

Click the “Add” button on the “Schedules” page, a new scheduled record dialog box will pop up for you to set the file name, file group and other information. After select “Regular record”, you can set the scheduled period and time and the record time of everyday, every week and every month. Then click “OK” button to save the settings.

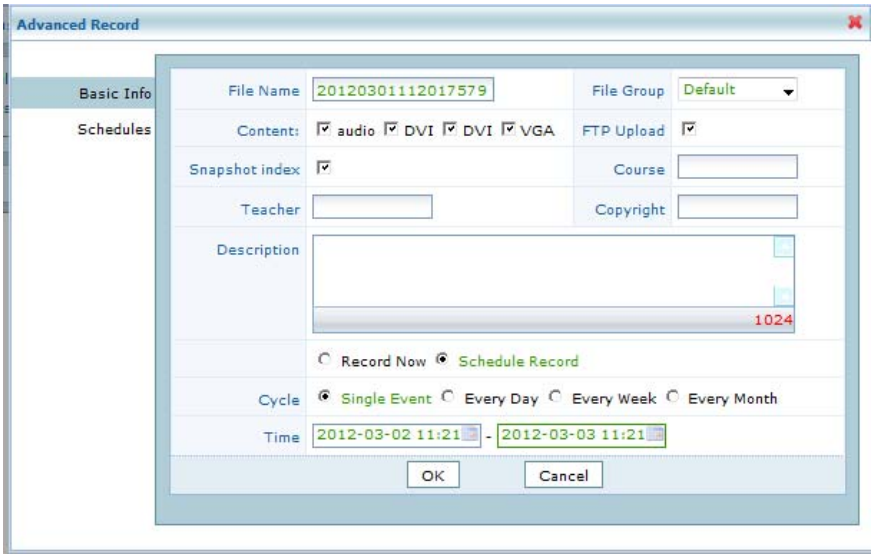

Fig. Adding new scheduled record task

5.3.2 Modify scheduled record

Select the scheduled record task on the “Schedules” page and click the “Modify” button; the modification dialog will pop up. You can click “OK” button to save the settings or click “Cancel” button to cancel the modification.

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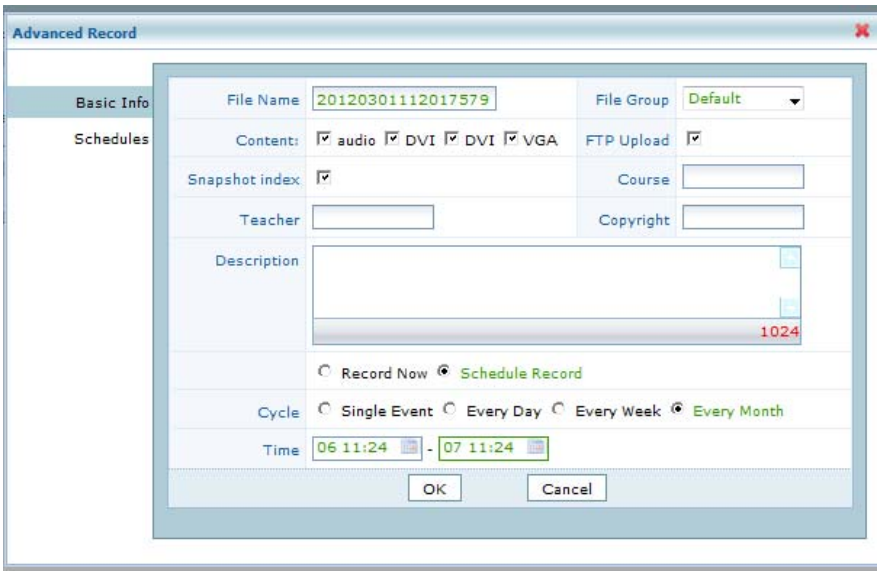

Fig. Modifying scheduled record task

5.3.3 Delete scheduled record

Select the scheduled record task you want to delete and click the “Delete” button, a dialog will appear to prompt the user to delete. You can click “OK” button to delete or click “Cancel” button to cancel the deletion.

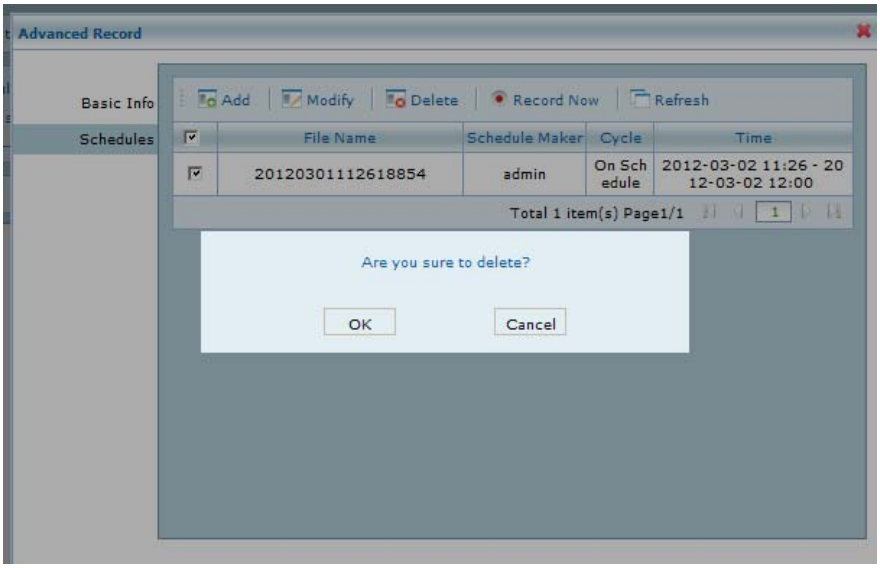

Fig. Deleting scheduled record task

5.3.4 Record immediately

If the device has not started recording, it will start to record immediately once you click “Record Now” after selecting a record task on the “Schedules” page. If the device is recording, a dialog box will appear to provide the conflict prompt. Clicking “Record Now” will not change the attribute settings of original scheduled record task.

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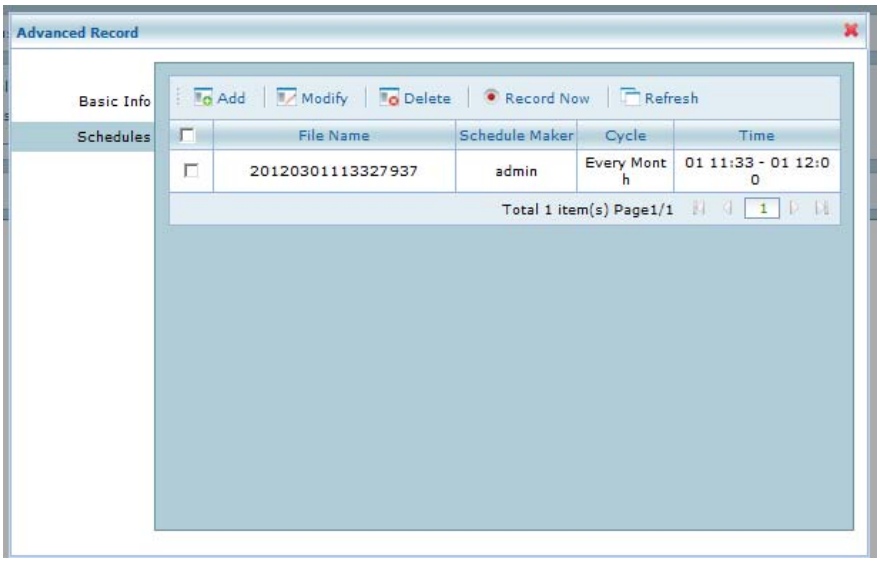

Fig. Record immediately

5.4 Stop Record on Web Interface

Sign in the device by using “admin”.

Click “Live” menu to enter the device Live management interface.

The “Quick Record” button will become “Stop Recording” button during recording.

Click “Stop Recording”. Then it will stop in a few seconds.

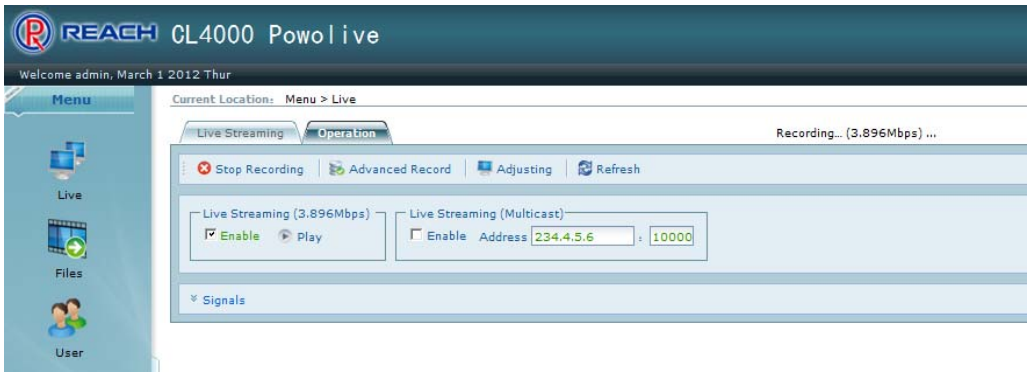

Fig. Stop record

5.5 Record with Buttons on the Front Panel

When the device is not in the record mode, the Stop Record LED is on. Press the “Record” button now, the Record LED will be on and the Stop Record LED will be off, then you can start to record.

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When the device is in the record mode, once the “Pause” button is pressed, the Pause LED will be on and the Record LED will be off, then you can pause recording. Repress the “Record” button, the system will continue to record without generating a new file name.

When the device is in record mode, press the Stop Record button to stop it, the Stop Record LED will be on and the Record LED will be off.

VI VOD

6.1 VOD as the Administrator

Sign in the device by using “admin”.

Click the “Files” menu to enter the file management interface.

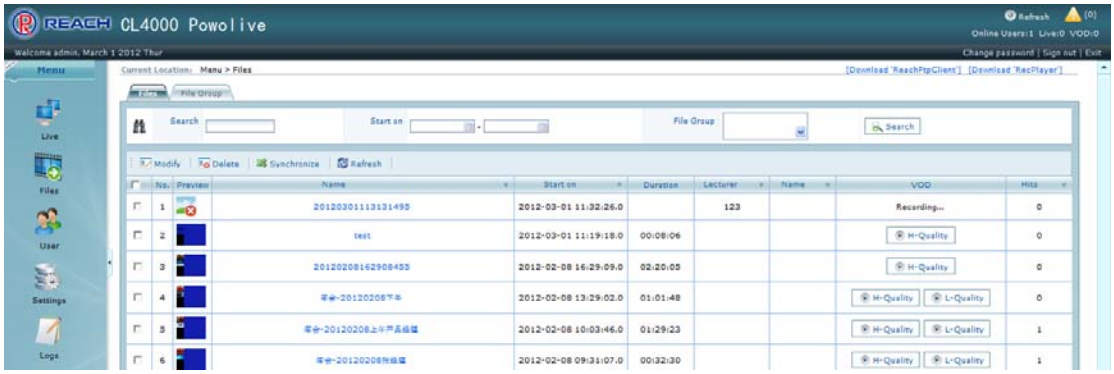

Fig. File management interface for the administrator

If there are more than one page in file list, you can turn the pages by clicking “Next page” and “Last page”, or change the displaying number on each page.

To sort the files, click “Name”, “Start on”, “Lecturer”, “Course name” or “Hits”.

If you cannot find the recorded file, click “Synchronize” or “Refresh” to refresh the file list to search it again.

Click the “H-Quality” button; the RecPlayer will pop up for you to play the video files. If both the high quality and low quality files are recorded, the “H-Quality” button and “L-Quality” button will appear.

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6.2 VOD as a Common User

Sign in the device by using a common user name with VOD authority.

Click the file list.

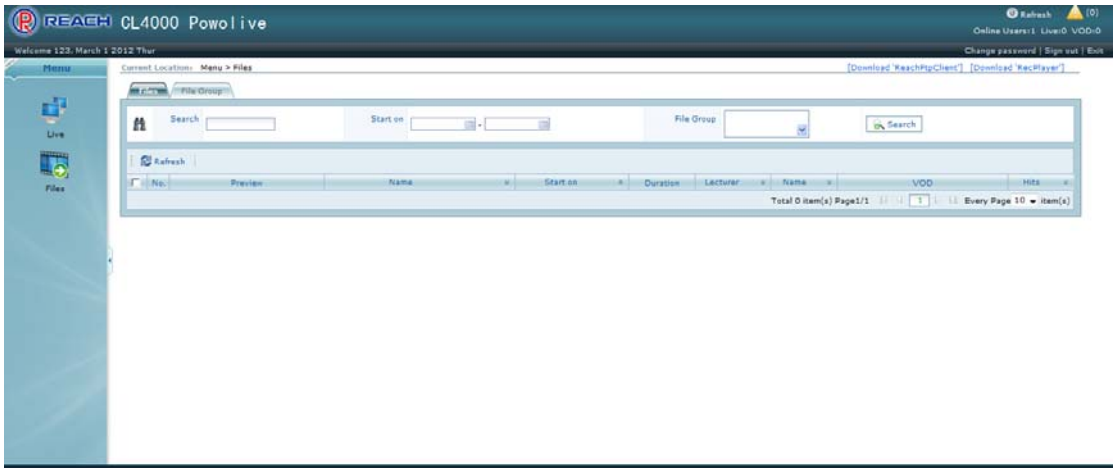

Fig. VOD as a common user

If there are more than one page in file list, you can turn the pages by clicking “Next page” and “Last page”, or change the displaying number on each page.

To sort the files, click “Name”, “Start on”, “Lecturer”, “Course name” or “Hits”.

If you cannot find the recorded file, click “Synchronize” or “Refresh” to refresh the file list to search it again.

Click the “H-Quality” button; the RecPlayer will pop up for you to play the video files. If both the high quality and low quality files are recorded, the “H-Quality” button and “L-Quality” button will appear.

6.3 Search Files

Sign in the device by using “admin”.

Click the “Files” menu on the left to enter the file management interface.

The search bar is on the top of the file list.

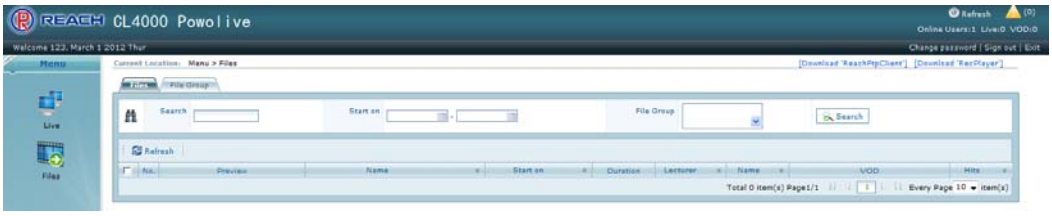

Fig. File searching

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In the search bar, you may use the file name, record time and file group as the key words for search. Enter related key words and then click “Search” to get the result.

6.4 Modify Files

Sign in the device by using “admin”.

Click the “Files” menu on the left to enter the VOD management interface.

To preview the thumbnail of the file, move the cursor to the preview area.

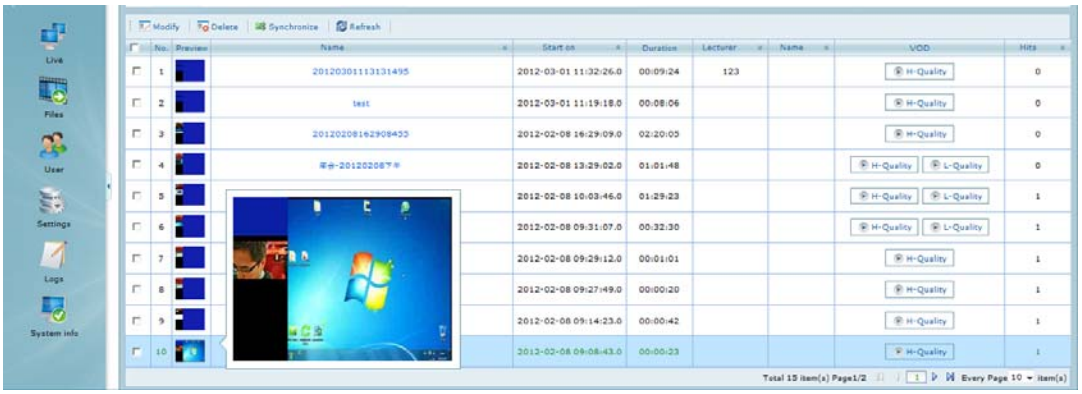

Fig. Previewing the file image

Click the file name to view the details of the current file.

Select a file and click the “Modify” button, then you can modify the basic information of the file.

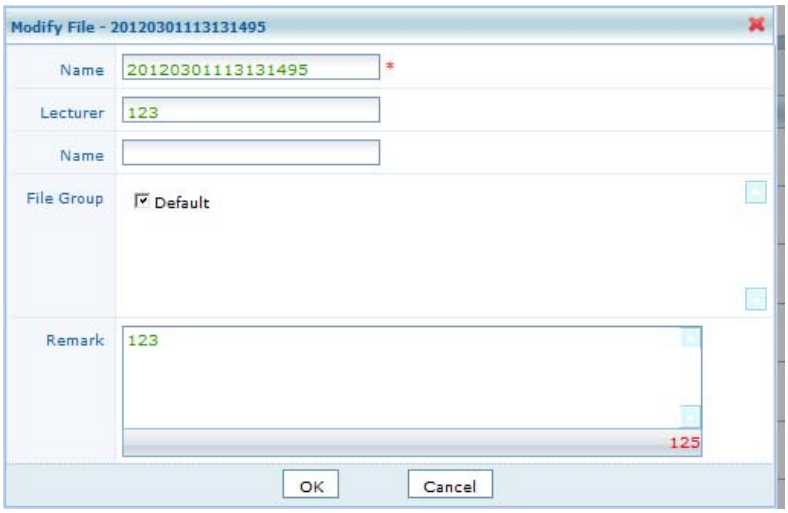

Fig. Modifying files

Click “OK” to save after the modification.

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6.5 Delete files

Sign in the device by using “admin”.

Click the “Files” menu on the left to enter the file management interface.

Select the file you want to delete and click the “Delete” button on the top, the confirmation dialog box will pop up. You can click “OK” to delete or click “Cancel” to cancel and return to the file management page.

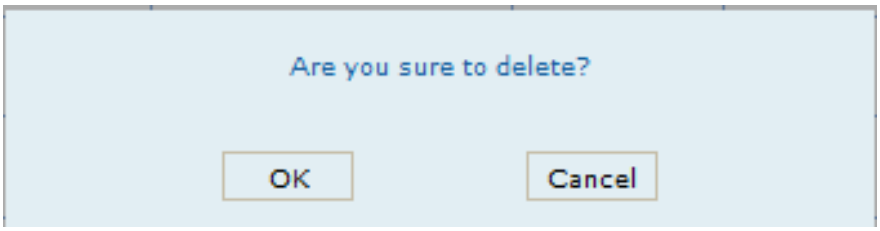

Fig. Confirmation dialog box for deleting files

6.6 Synchronize files

After the system is upgraded or the database is updated, the file may be not displayed in the list. Click the “Synchronize” button on the VOD management page, the files recorded in the old database will be displayed. The “Refresh” button is used to refresh the current file list information.

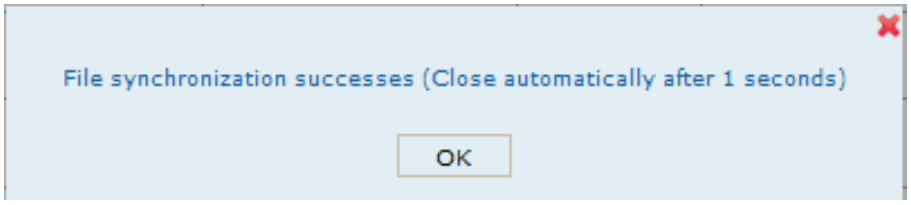

Fig. Synchronizing files

VII Download

Start the download tool ReachDownload.

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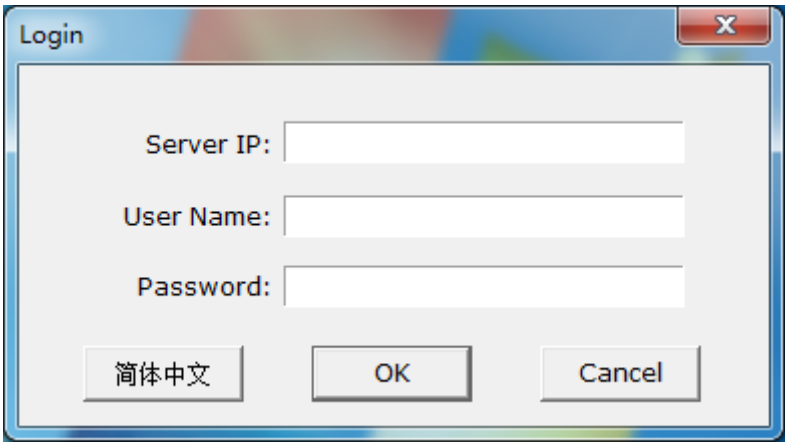

Fig. Login interface of ReachDownload

You may click “English” to switch to the English interface.

Enter the server IP address, user name and password. The default user name and password are both “admin”.

Click the "OK" button.

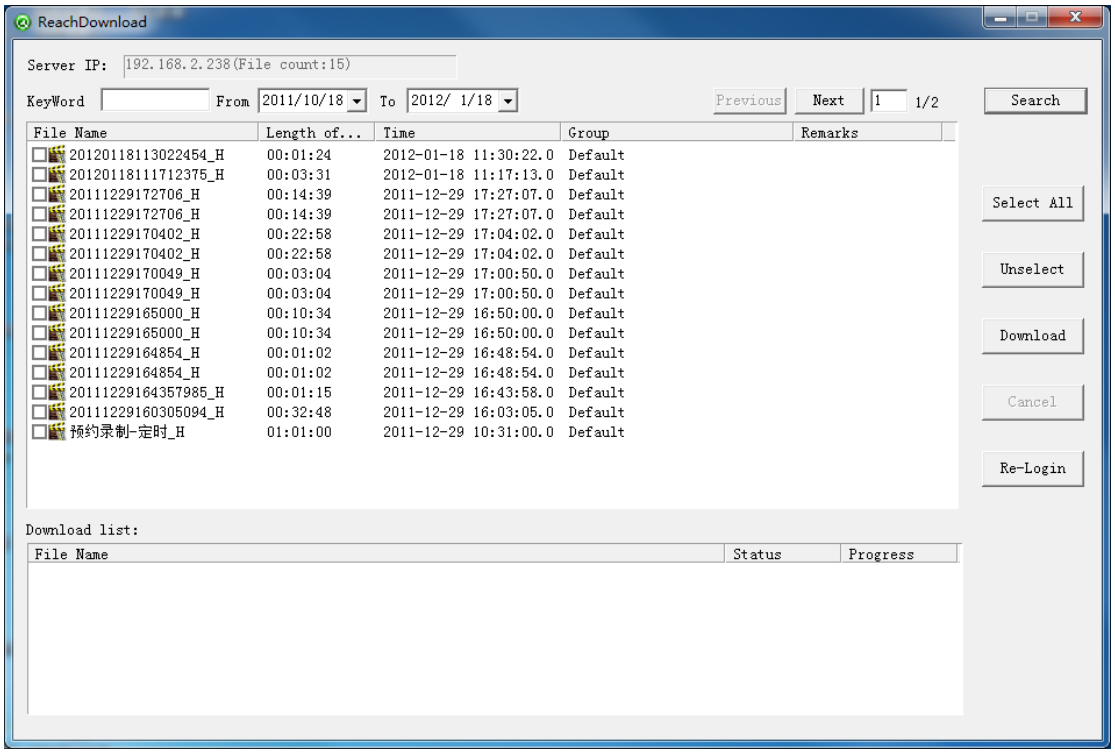

Fig. ReachDownload interface

Select the file that you want to download from the left column.

You may Search a specified file with the file name as key word or select the file you want to download with the “Select All” and “Unselect” button.

Click “Download”, select the save path and then click “OK” button to download the file.

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It is not recommended to perform other operations while downloading files.

Once downloaded, you can play the files with the RecPlayer.

VIII User Management

Sign in the device by using “admin”.

Click “User” on the left to enter the user management interface.

There are two tabs on this interface by default, including “Local User” and “Local User Group”.

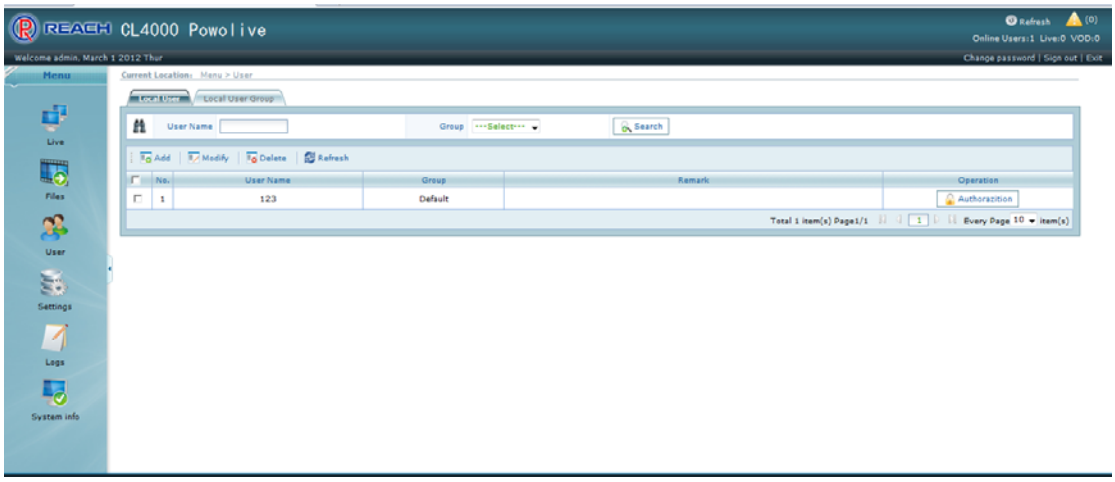

Fig. User management

8.1 Add New User

Click “Add”.

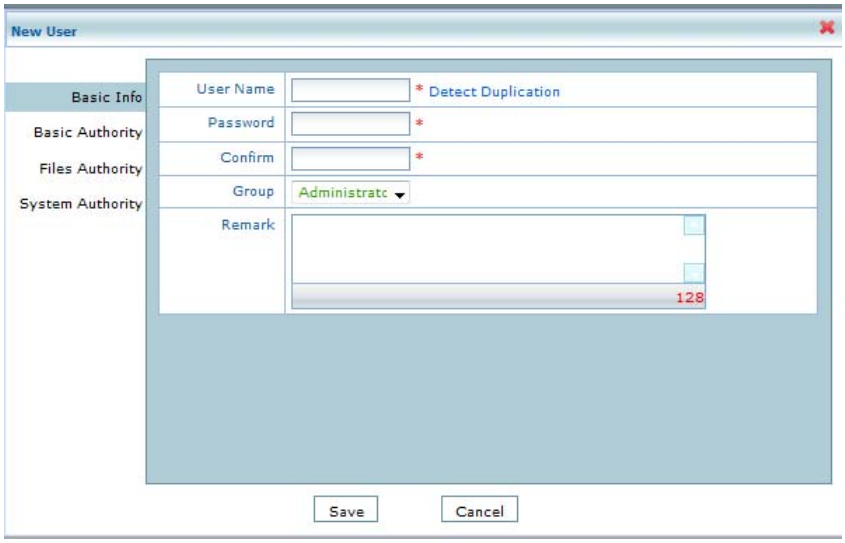

Fig. Adding a new user

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Enter the information of the user name, password and group following the instructions.

Click the "Save" button.

8.2 Modify User Attributes

Select the user whose attributes need to be modified and click “Modify” button.

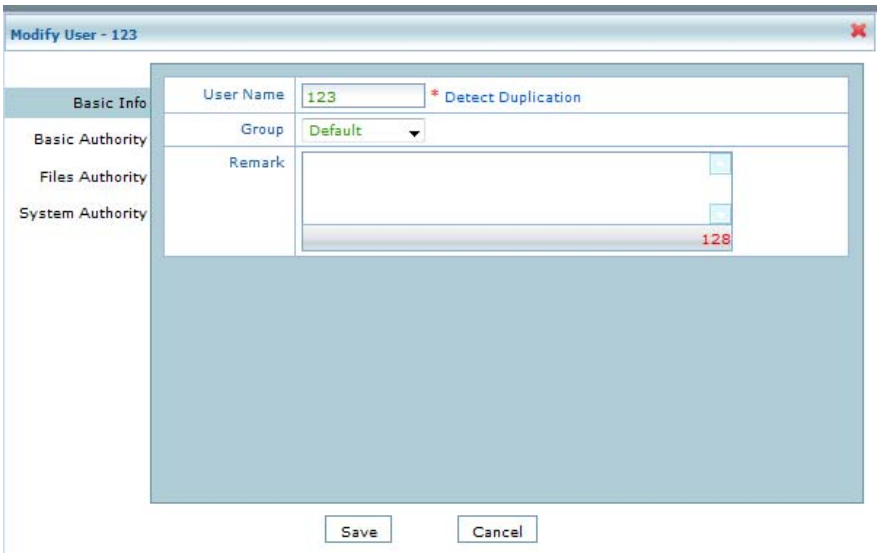

Fig. Modifying the user information

You can modify the user group and remark information here and grant the user with the authority of live streaming, VOD and system setting on other tabs as well.

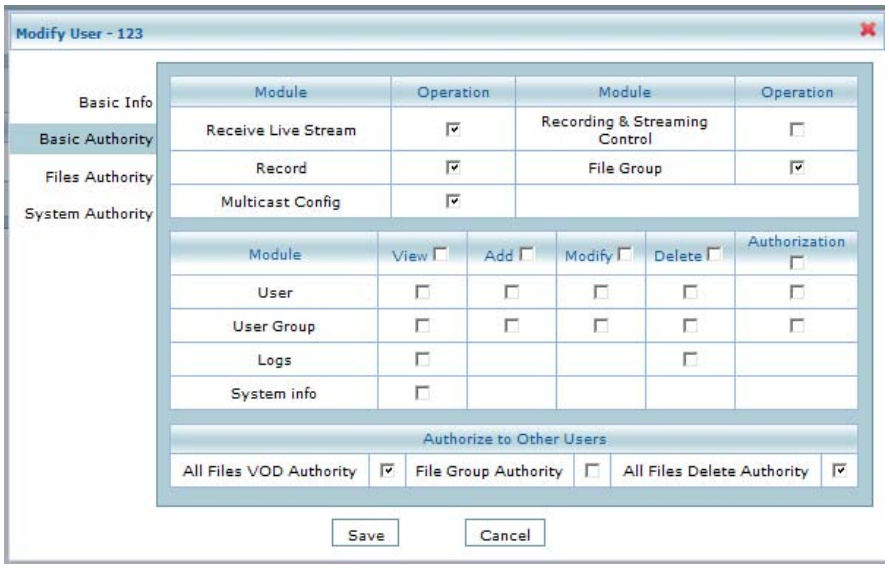

Fig. Modifying the user authority

Click “Save” after finishing the modification.

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8.3 Edit the VOD Authority of User

To modify the user's authority to play the file recorded, click the "Files Authority" tab in the "Modify" dialog box.

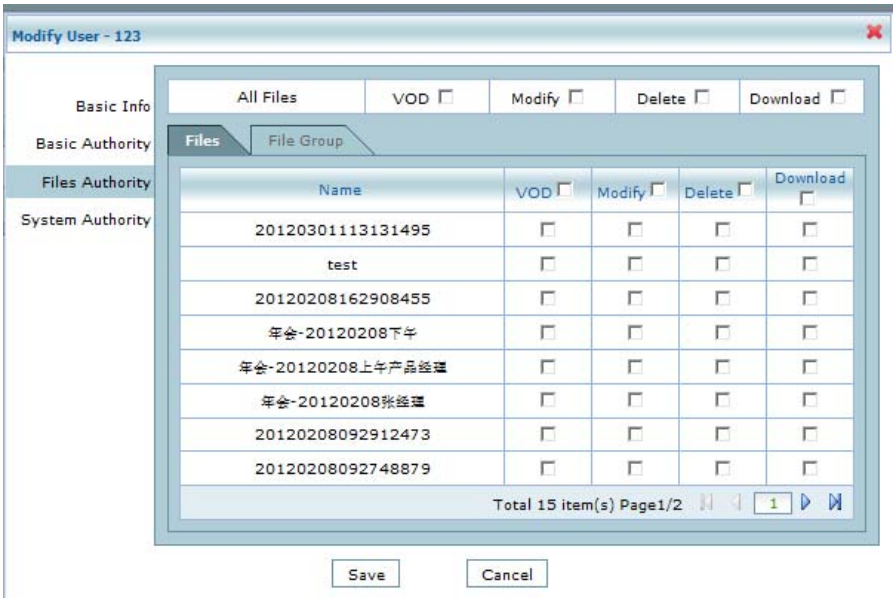

Fig. Editing the VOD authority of user

You may select the files that users are allowed to play on demand from the "Files" column. To select all the files, select the checkbox beside "Files".

You can also select "Modify", "Delete" and "Download" checkboxes to grant the user with authorities to modify, delete and download files.

Click the "Save" button, the modification will be effective.

8.4 Delete Users

Select the user you want to delete and then click the "Delete" button.

Click "OK" in the prompted confirmation dialog box.

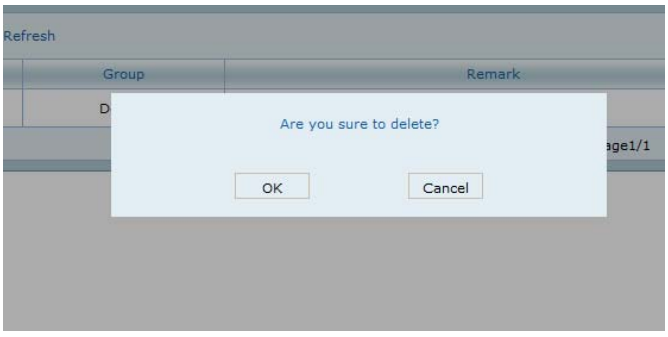

Fig. Dialog box for deleting users

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8.5 LDAP User and User Group Management

The “LDAP User” and “LDAP User Group” tabs will appear on the user management interface after the LDAP server is enabled in the system management page and connected successfully (please refer to Section 9.2.10 for details).

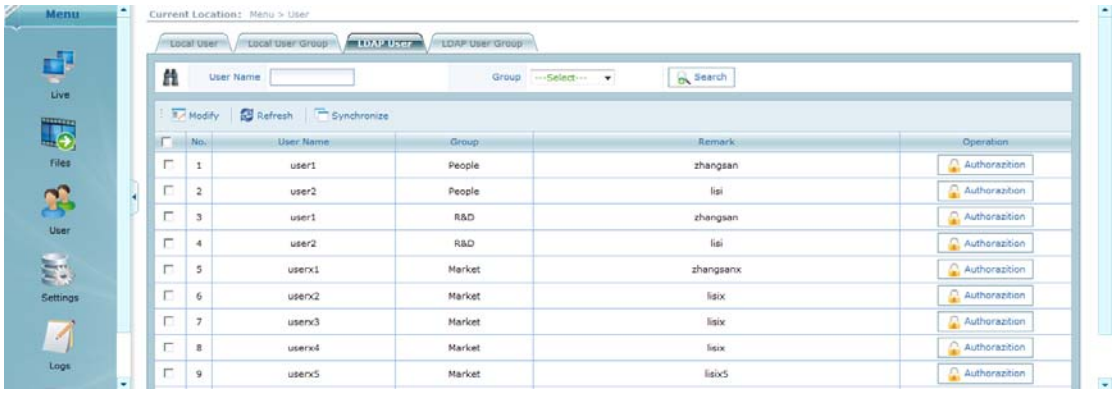

Fig. LDAP user management

You can click the “Synchronize” button to synchronize the user names and user groups on the LDAP server to the Media Master. You can search the user information according to the user name and user group, click the “Modify” button to modify the remark information of the user or the user group, however, you cannot change the user name and password. You can also click “Authorazition” to set the authority of the user or the user group (the setting method is the same as that of local users, please refer to Section 8 User Management).

IX Settings

9.1 Set VOD and Record Parameters

Sign in the device by using “admin”.

Click the “Live” menu to enter the Live management interface and click “Signals” to expand the details.

9.1.1 Set Live bit-rate

You can set the default bit-rate, enable high/low quality bit-rate, select the audio input source as “Line in” or “MIC in” and set the bit-rate of audio on this page.

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To enable the settings, click the “Save” button.

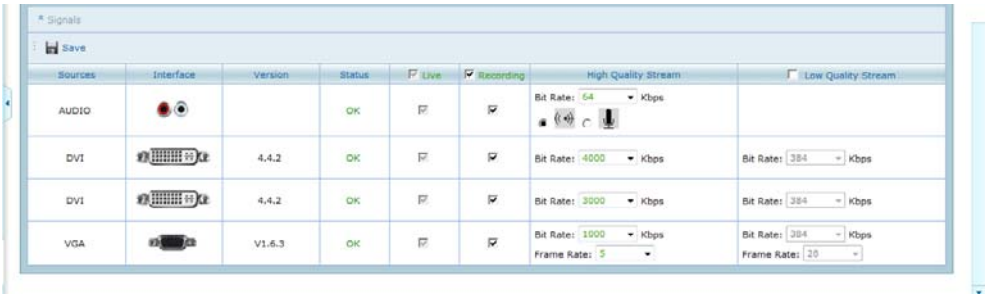

Fig. Setting the bit-rate of the device board card

9.1.2 Adjust the screen position

Click “Screen Adjust” to enter the screen adjustment page.

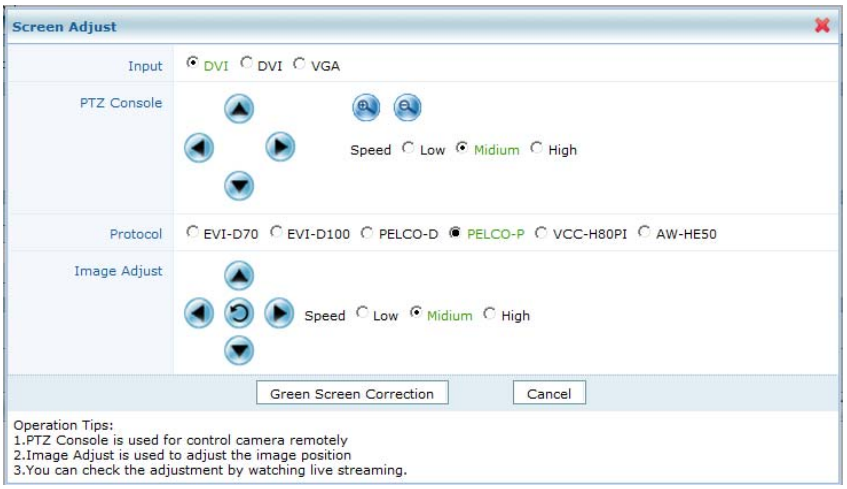

Fig. Adjusting the screen position

Click the video module you want to adjust.

Click the related buttons in the line of “Image Adjust” to adjust the screen position.

Icon	Definition
	The screen will move upward.
	The screen will move left.
	The screen will move right.
	The screen will move downward.
	The screen will recover to the position before moving.
Speed	It is used to set the moving distance of the screen when you click

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	the direction buttons. You may select high, middle and low proportions.

Fig. Definitions of the icons for adjusting the screen

Click the “Back” button after the adjustment.

9.1.3 Adjust the screen color

Click “Screen Adjust” to enter the screen adjustment page.

Click the video module you want to adjust.

Click “Green Screen Correction”.

Click the “Back” button after the adjustment.

9.1.4 Control the camera PTZ

Click “Screen Adjust” to enter the screen adjustment page.

Click the number of the camera you want to control.

Select the protocol that matches with the camera PTZ from the “Protocol" line.

Control the rotation and scaling of the camera from the “PTZ Console” line.

Icon	Definition
	The camera will move upward.
	The camera will move left.
	The camera will move right.
	The camera will move downward.
	The camera will zoom in on the image.
	The camera will zoom out on the image.
Speed	Control the moving speed of the PTZ, and the speed can be low, middle or high.

Fig. Definitions of the icons for PTZ control

Click “Close” to close the window after the adjustment.

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9.2 Set System Parameters

Sign in the device by using “admin”.

Click the “Settings” menu on the left to enter the system management interface.

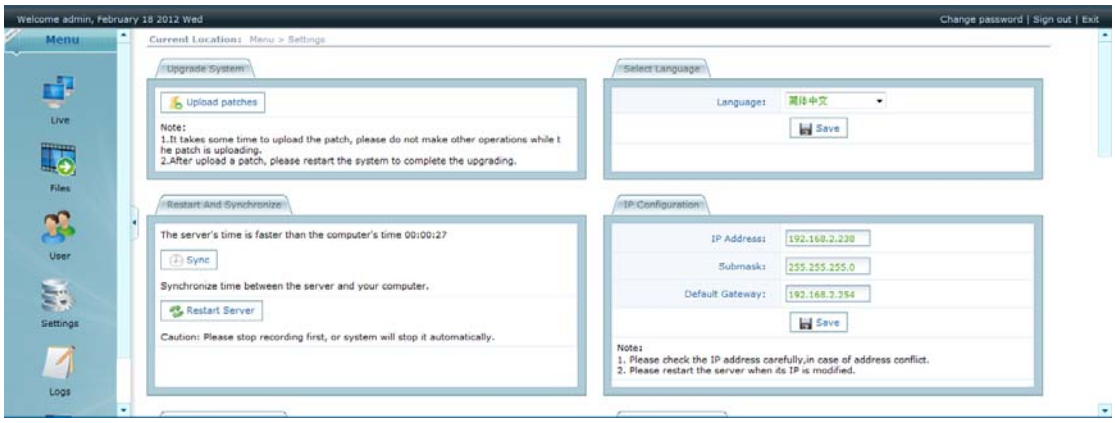

Fig. System management interface

9.2.1 Upgrade the system

[Warning] Only the authorized professionals can upgrade the system in strict accordance with the upgrade instructions. The upgrade conducted by others may lead to unpredictable results!

Click "Upload patches” in the “Upgrade System” field and select the upgrade file for the system.

Click the "Upload" button.

Restart the device after uploading to complete the upgrade.

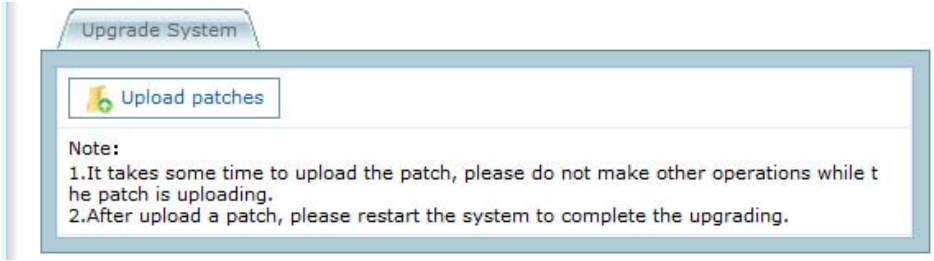
Upgrade System
Upload patches
Note:
1.It takes some time to upload the patch, please do not make other operations while t he patch is uploading.
2.After upload a patch, please restart the system to complete the upgrading.

Fig. Upgrading the system

9.2.2 Modify the language

Select the language you want in the “Language” field.

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Click the "Save" button.

The system language will be the selected language after you re-sign into the device.

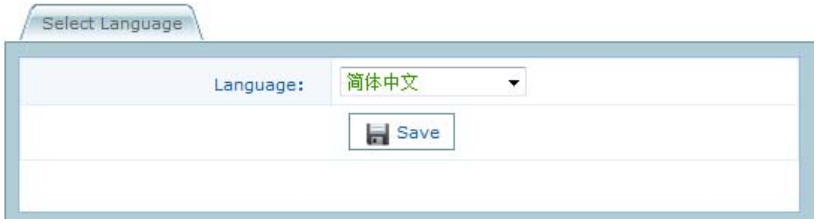

Fig. Changing the language

You may also modify the language settings on the home page of the device. The system will recover the setting before the modification when the browser is restarted or the caching is cleared.

9.2.3 Restart the system and synchronize the time

You may click “Sync” to synchronize the device time to the current login user end.

To restart the device, click “Restart Server”.

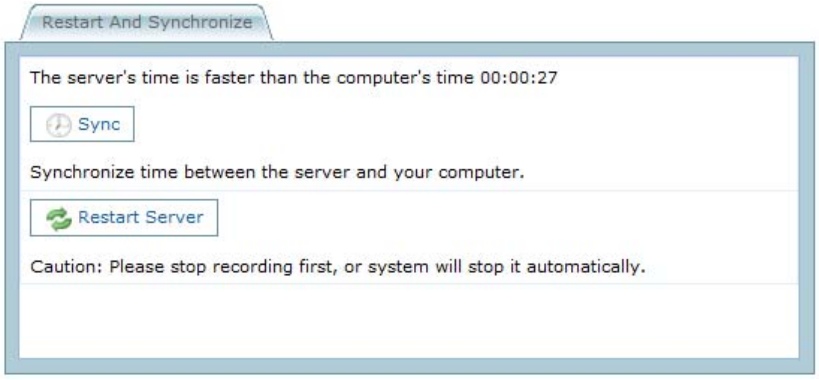
Restart And Synchronize
The server's time is faster than the computer's time 00:00:27
Sync
Synchronize time between the server and your computer.
Restart Server
Caution: Please stop recording first, or system will stop it automatically.

Fig. Restarting the system and synchronizing the time

9.2.4 IP settings

[Warning] Modifying the network configuration will cause the device to restart, therefore, please stop recording and save the other important settings before modification!

You may modify the IP address, subnet mask and gateway assigned by the network administrator in the “IP settings” field.

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Click the "Save" button.

To enable the new network settings, restart the device.

Fig. Modifying the IP address

9.2.5 Configure the network storage

[Warning] This device can only be used together with the network storage device that has passed the specialized tests. The connection to the network storage device that has not passed the test may result in system error and user data loss!

Select “Enable Network Storage” in the “Network Storage Settings” field.

Enter the IP address of the network storage.

If you want to store the recorded file in the network storage firstly, select "Network Storage First".

Click the "Save" button.

Fig. Setting the network storage

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9.2.6 Modify the device name

Modify the “Device Name” in the “Device Name Setting” field.

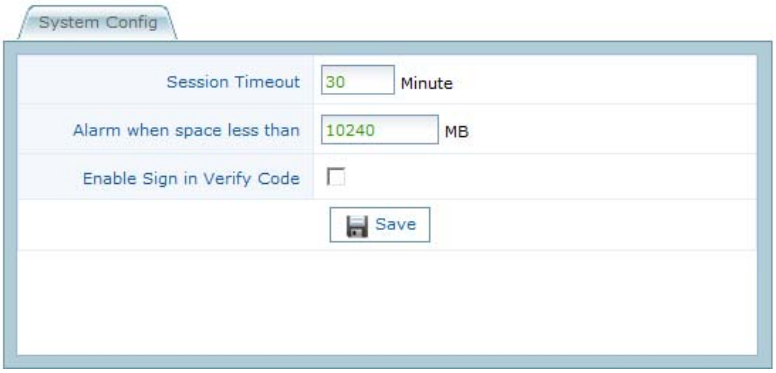
Click the "Save" button.

The new name will be displayed on the login interface and home page after the modification.

Fig. Modifying the device name

9.2.7 Recording duration for single file

To set the recording duration for a single file, tick “Enable Time Slicing”. The system will automatically generate a new file after the trigger according to the time set. You can also cancel the settings to save the contents recorded as one file all the time.



9.2.8 System configuration

This field is used to set the time when the user is forced to log out the system in case that the user has no action, set the free space alarm threshold (the system will provide a warning message when the free space is less than the threshold), and select whether the verification code will be enabled on the login interface.

To enable the settings, click the “Save” button.

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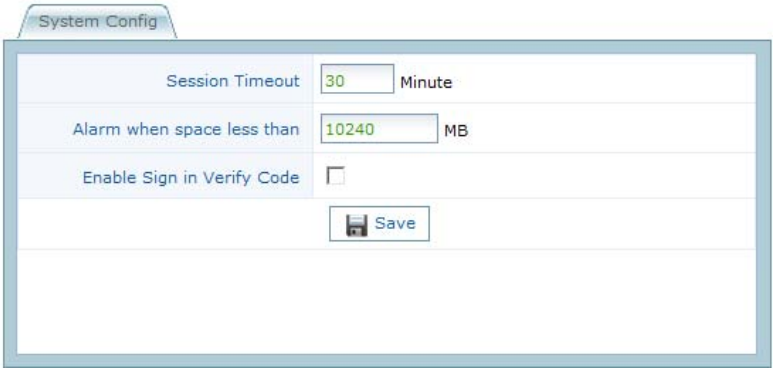

Fig. System configuration

9.2.9 FTP server management

You can upload the files recorded to the third party server. This field is used to configure the address and port of the server, user name and password.

Fig. FTP server management

9.2.10 LDAP sever configuration

The system supports the LDAP server and you can sign in the system with the user information stored on it. This field is used to configure the detailed information of the LDAP server. Please consult the network administrator for the information about the LDAP server.

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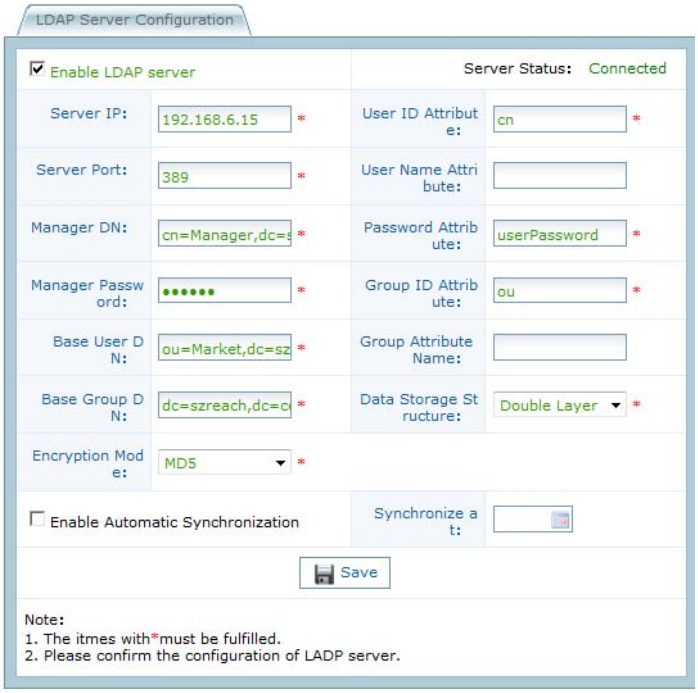

Fig. LDAP sever configuration

X Sign out and Exit

After logging into the device on the Web, the links of “Change password”, "Sign out" and “Exit” will be displayed on the top right corner all the time.

To change the password of the current user, click “Change password”. Note: The administrator cannot change the password of other users. Only the user can change the password for itself after sign in.

Click “Sign out” to go back to the login page, and re-enter the login information to sign in.

Click “Exit” to close the browser and log out the system.

XI Log Management

Sign in the device by using “admin”.

Click “Logs” on the left, the system Sign interface will appear. You can search corresponding logs by inputting key words in the “User”, “Type” and other fields in the search bar on the top.

You may click the “Maintain” button to delete the log. Note: By default, the logs of the latest three months cannot be deleted.

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Welcome admin, February 18 2012 Wed
Change password | Sign out | Exit
Menu
Live
Files
User
Settings
Logs
Current Location: Menu > Logs
Search
User
Type
Time
Maintain
Refresh
No. User Type Title Description IP Time
1 Record Recording Start Recording 127.0.0.1 2012-01-18 14:43:01.25
2 admin Sign in 登录 成功 192.168.2.18 2012-01-18 14:32:53.219
3 admin Sign in 登录 成功 192.168.2.18 2012-01-18 14:31:35.75
4 admin Download 登录 成功 192.168.2.18 2012-01-18 13:49:02.141
5 FileSync Files 删除文件 成功 127.0.0.1 2012-01-18 11:56:33.11
6 FileSync Files 删除文件 成功 127.0.0.1 2012-01-18 11:56:27.641
7 admin Sign in 登录 成功 192.168.2.18 2012-01-18 11:39:47.282
8 123 Sign in 登录 成功 192.168.2.18 2012-01-18 11:38:17.813
9 Record Recording 停止录制 20120118113022454_H 127.0.0.1 2012-01-18 11:31:49.329
10 admin Recording 停止录制 成功 192.168.2.18 2012-01-18 11:31:46.563
Total 116 item(s) Page1/12
Every Page 10 item(s)

Fig. System log

Click the triangle icon on the top right corner of the page; you can view current warning messages.

XII Troubleshooting

- **Unable to start**

  Please try the following operations:

  - ✓ Make sure that there is power supply for the power socket.
  - ✓ Connect the power cables properly.
  - ✓ Turn on the power switch of the product.

- **The computer could not Sign into the Web interface**

  - ✓ Make sure that the computer and the product are connected in the same interconnected network.
  - ✓ Make sure that the network parameters (such as IP address) of the computer and the product have been set according to the requirements of the network administrator.
  - ✓ Use the network tool and software to test the network connection between the computer and the product. For example, use the ping command.

  If you still could not Sign into the web interface, please contact the network administrator.

- **There is no sounds or/and images while watching the program through the**

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computer

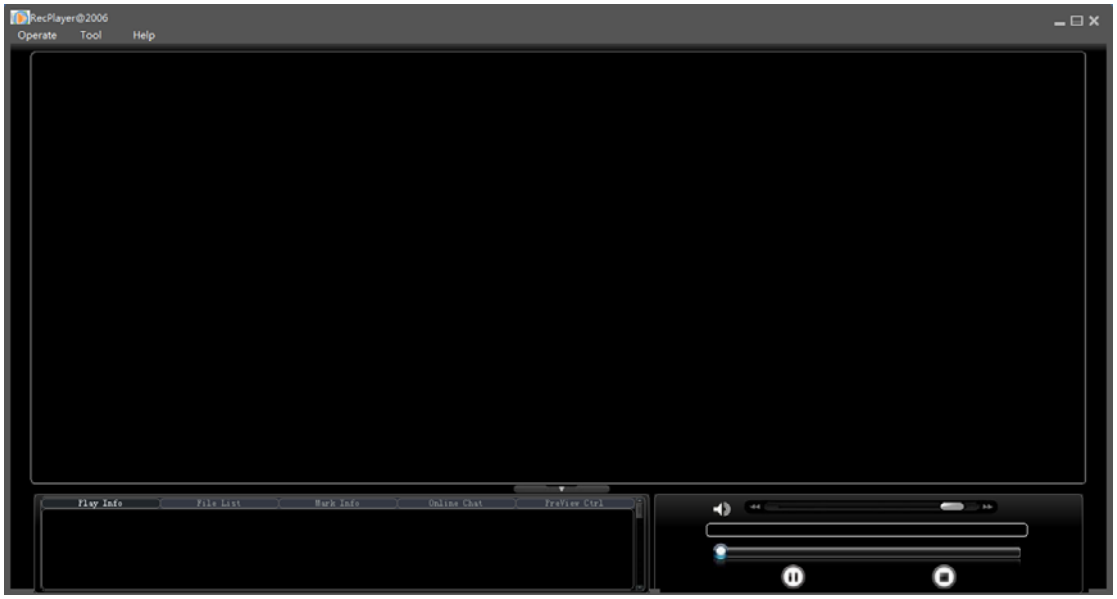
- ✓ Please check if the cables between the video and audio sources and the product are connected properly before watching the live streaming. Please make sure that the file you want to play on demand contains normal audio and video flow before playing the VOD file.
- ✓ Check if the network connection between the computer and the product is smooth.
- ✓ Install necessary software and plug-in provided by the product to watch the live streaming and VOD.
- ✓ Update other necessary software for the computer, such as the sound card, video card driver, operating system patch, etc..

XIII Introduction to RecPlayer

13.1 Product Overview

Reach RecPlayer is a software developed by SZ Reach Tech Co., Ltd for its Media Master, usually installed on the computer for use. The media files recorded with Reach Media Master are multiple streams, which may not be played well with general players. This software supports the live streaming, VOD and local play of files under various devices.

The software application is as shown in the following figure:



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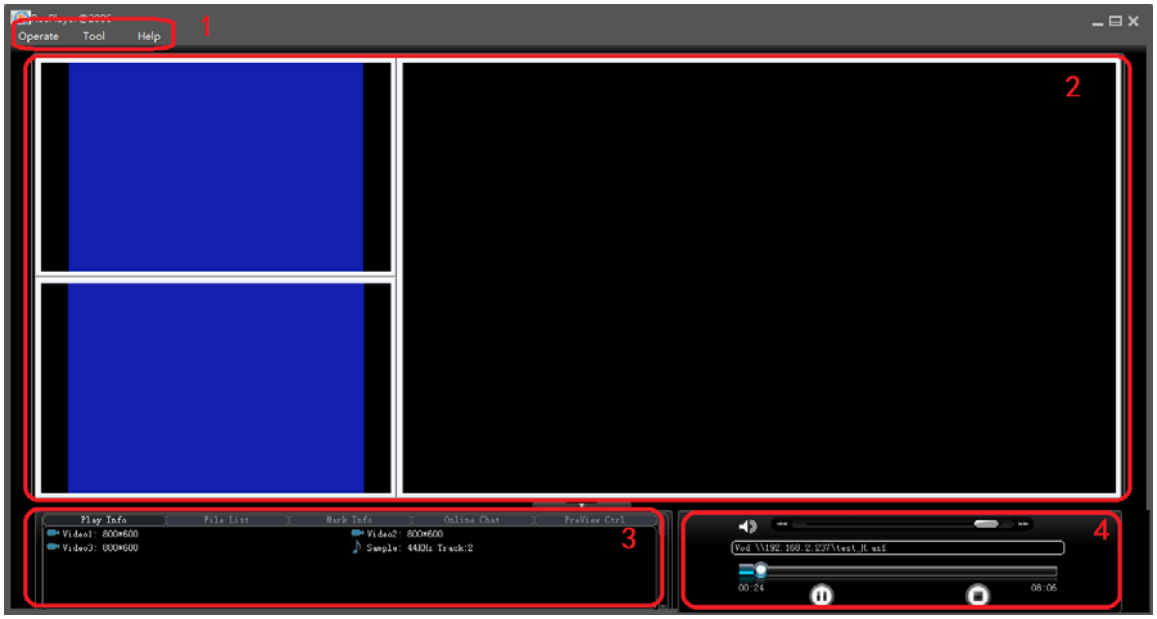
13.2 Environment for Software and Hardware Installation

√ To maintain the smoothness of the network communication, the network bandwidth shall be at least 100M and it is recommended to use the network with a bandwidth of 1000M.
√ Recommended configurations for software installation PC:
Dual-core processor above 2.2GHz
Resolution of above 1024*768
Video memory independent VGA card of above 512M
Memory of above 2G
HD space of over 1GB
Win2000/XP/Win7 Chinese/English operating system

13.3 Introduction to the Interface



Main interface for the software control

As shown in the above figure, the software operation interface is composed of 4 fields: 1. Tool menu. 2. Play window. 3. Auxiliary function. 4. Playing status.

The tool menu is used to perform some common control operations of the software. The play window displays the playing status of the current video. The auxiliary function field mainly displays the information of the video played and provides preview control. The playing status field mainly displays the name and length of the current video and provides playing control.

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13.4 Functions

13.4.1 Play

Receive live streaming in the unicast mode:

Enable “Unicast” on the “Live” page of the Media Master and then click “Play” button. The system will call the RecPlayer to play the file.

Receive live streaming in the multicast mode:

Method 1: Enable “Multicast” on the “Live” page of the Media Master and then click “Play” button. The system will call the RecPlayer to play the file.

Method 2: Enable “Multicast” on the “Live” page of the Media Master and then return to the RecPlayer to click “Operation”. The following menu items will appear: Receive media, Play file, Login server, Vod file, Close and Exit.

Fig. Operation menu

Once “Receive media” is selected, a dialog box as below will pop up with the multicast address and port of corresponding Media Master. You can change the multicast address and port according to your actual demand.

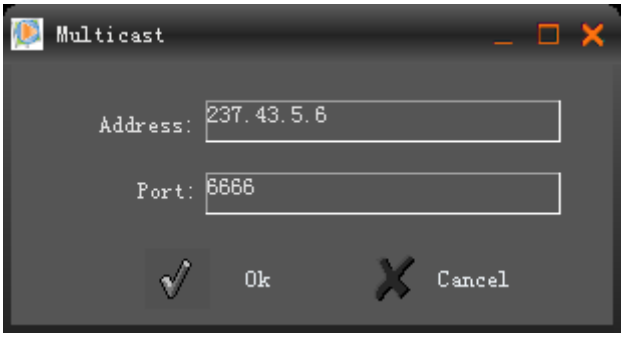

Fig. Receive Media dialog box

Check whether the multicast address and port correspond with the server and click “OK”. When the server is connected successfully, the status is as shown in the following

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figure:

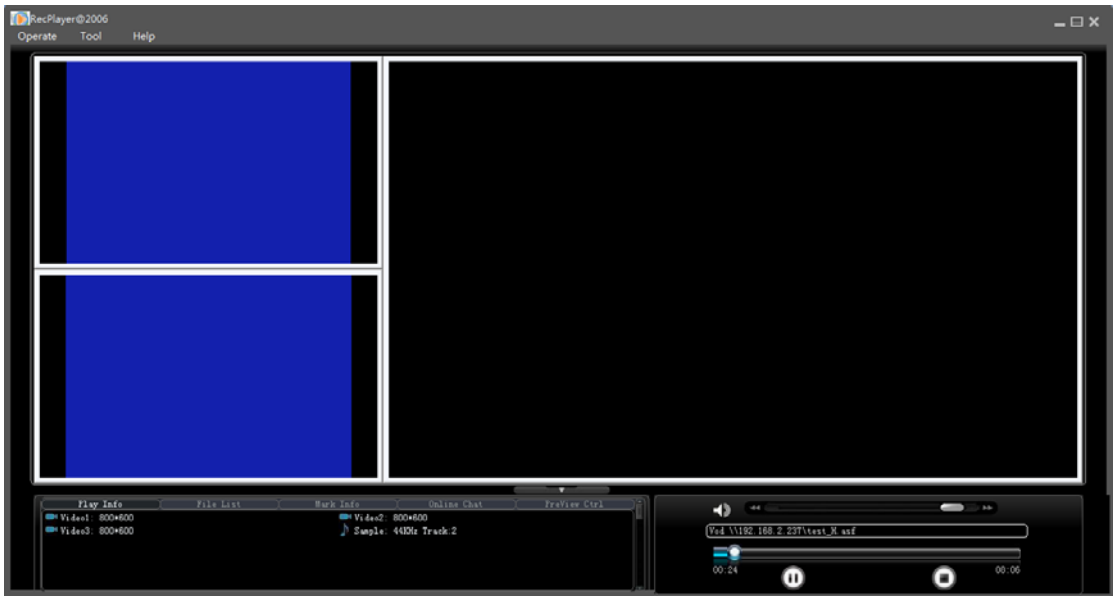

Fig. Live streaming

Note: The multicast function is available only after the multicast service is enabled and you must confirm whether the multicast address and port are correct before the connection to ensure the success.

13.4.2 Receive VOD

Method 1: Directly click the “Files” button on the Media Master; the system will automatically call the RecPlayer to play on your demand.
Method 2: Select “Login server” to prompt a dialog box and enter the IP address of corresponding Media Master and the default VOD password “szreach”, as shown in the following figure:

Fig. Dialog box for logging in the VOD server

Click “OK”, a dialog box will pop up, showing the files saved on the corresponding Media Master. You can select the name of the file you want to play and click the “Files” button to play, as shown in the following figure:

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Fig. Dialog box for the VOD list

Note: Before logging in the VOD server, the unicast function of the Media Master shall be enabled for use.

Note: This function is available only when you are playing on demand after the video is recorded.

13.7 Online Communication

Select the “Online Chat” option in the third field of the software. The Media Master supports the live streaming online text chatting function. This function can be enabled only when the administrator previews the system after the encoder is connected, and it can be started and closed by the administrator only. To enable this function, select the “Online Chat” option directly upon the preview of the administrator. Then type in text in the editing box directly, as shown in the following figure:

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When the administrator enables the “Online Chat” function, the clients may start text communication or speak to all the connected users or certain user. To speak to certain user, you need to double click a certain user in the user list and then click “Send”. (If you click “User Number”, it indicates that you send to all the connected users.)

Besides, you may also right click the menu to enable the online communication function. To do this, right click the expanded arrow mark in the above figure:

1. Start roll-call: Click this button. Then you can carry out roll-call operation on all the online live streaming receivers one by one. If the following client does not have “Confirm” response, it indicates that no one is watching the live streaming at the client.

Directly click the “Start roll-call” button in the above figure, the following figure will appear. Click the “Start” button. Then you can start the roll-call operation.

2. Disconnect user: the administrator may disconnect the link of any user at any time to prevent him/her from receiving the live streaming to prevent the unknown user to maliciously connect the server to receive the live streaming, so as to ensure that the legal users can normally receive the live streaming.

To disconnect the link of any user, click the user directly in the user list, click “Disconnect user” button, then select “Yes” in the confirmation dialog box.

3. Multicast agent: The administrator may remotely start or close the multicast agent function of any user at any time.

To remotely open the multicast agent function of a user, directly click the user in the user list and click “Open multicast agent” button. Then fill in the multicast address and port number in the prompted dialog box.

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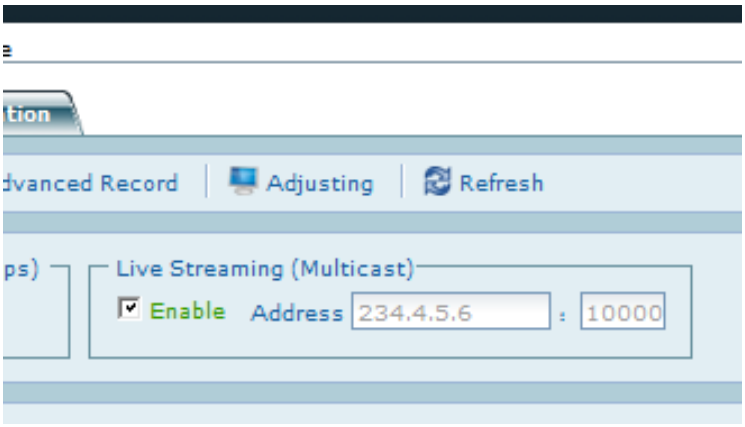

Fig. Opening multicast

To close the multicast agent, directly click the client that needs to close the multicast agent in the user list, right click to select “Close multicast agent” and then select “Yes” in the prompted dialog box.

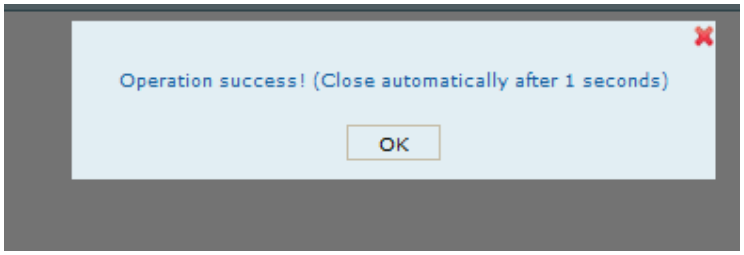

Fig. Closing multicast

13.8 Change Picture Layout

Enter the “Tool” menu in the first field of the software interface, you will see three options as below: Option, Normal and Language.

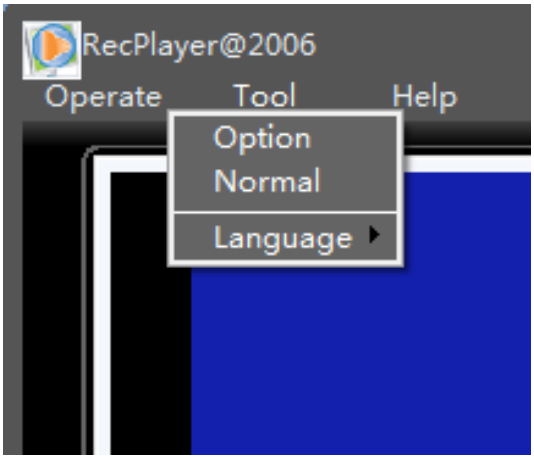

Fig. Tool menu

Select the “Option” menu, the corresponding dialog box will pop up as below, which

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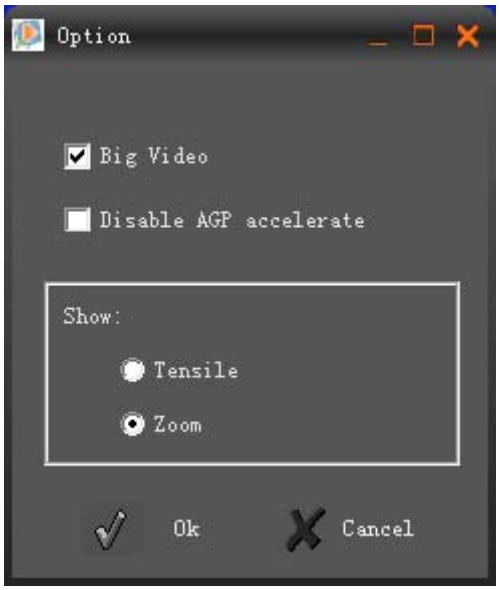
have the following options: Big Video, Disable AGP accelerate, Tensile and Zoom options under Image display.



Dialog box for “Option” menu

Big Video: Used to zoom in any window of the picture.
Disable AGP accelerate: Used to disable a function of the computer video card. It is generally not used.
Tensile: Used to stretch a video window to display with full screen.
Zoom: Used to display the picture according to its actual size.
Normal: Used to return to the initial window state.
Besides, there are two more operation functions. 1. Select one picture and double click, it will display with full screen. 2. Dragging the picture to change the position of the picture window.

13.9 Play of Local List

In the first field of the software interface, enter the “Operation” menu and select the “Play files” option, a window will pup up. Find all the files you want to play and directly click “Open” button. Return to the “File List” option, you will see the list of files you selected. As shown in the following figure, there are two video files and you can double click anyone to play it.

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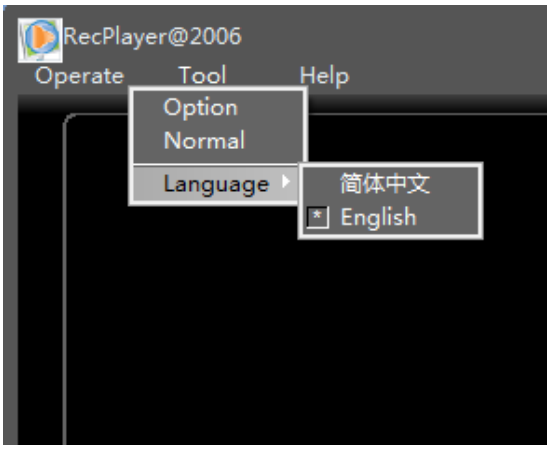
13.10 Play Control

You can see four buttons in the forth field of the software interface, including the Playing status, Pause, Stop and Sound control. In the live streaming mode, you can adjust the sound only; the Pause and Stop buttons are disabled. In the VOD or local play mode, all the button functions are enabled. As shown in the following figure:

13.10 Other Options

13.10.1 Select the language

In the first field of the software interface, find the “Tool” menu and select “Language”. Then you can select Simple Chinese or English, as shown in the following figure:



13.10.2 View the software version

You can view the technical version of the software by selecting the “Help” menu in the first field of the software interface. The software will be updated from time to time. You can install and use it according to your demand. As shown in the following figure:

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